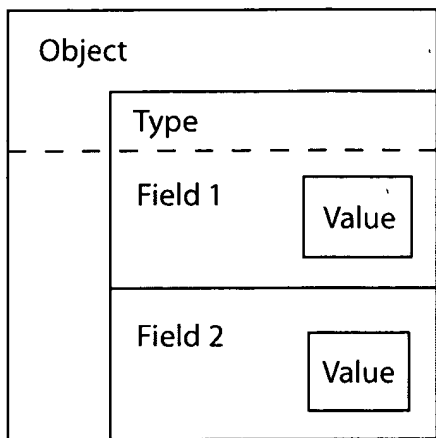




FIG. 1

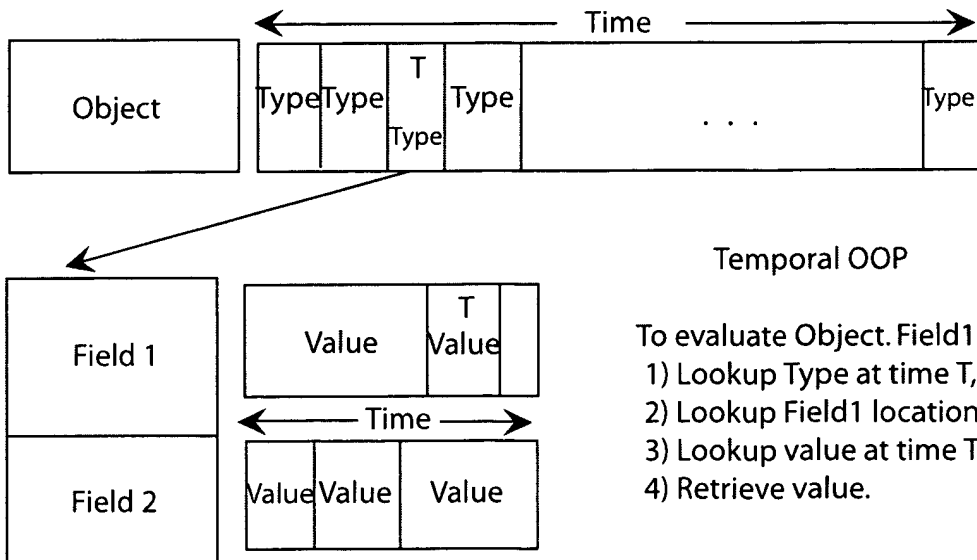
Object Oriented Runtime Comparison



OOP

To evaluate Object.Field1:
1) Lookup static type,
2) Lookup static Field1 location
3) Retrieve value.

FIG. 2



Temporal OOP

To evaluate Object.Field1:
1) Lookup Type at time T,
2) Lookup Field1 location,
3) Lookup value at time T,
4) Retrieve value.

FIG. 3

GENERAL ERROR CONDITIONS

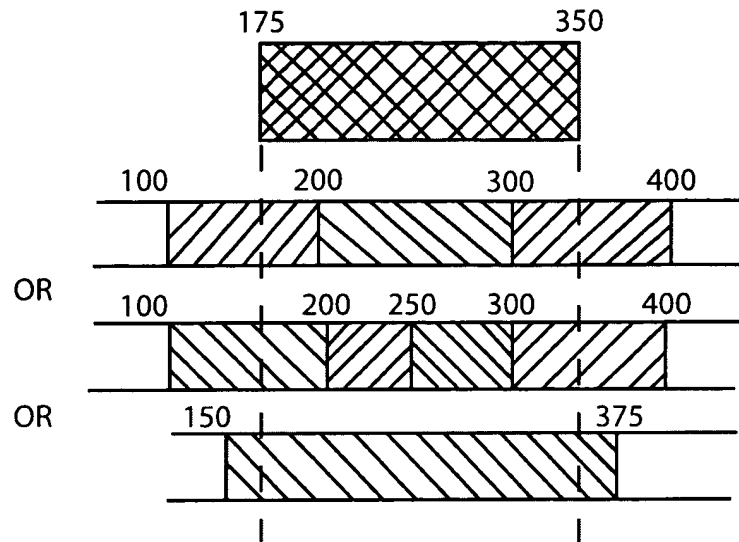


FIG. 4

ADD_NEW_ATTRVAL_SHIFT (ONE END-POINT)

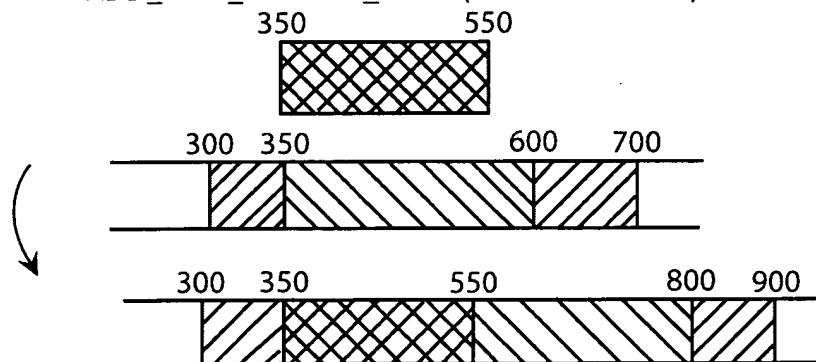


FIG. 5

ADD_NEW_ATTRVAL_SHIFT (ONE END-POINT)

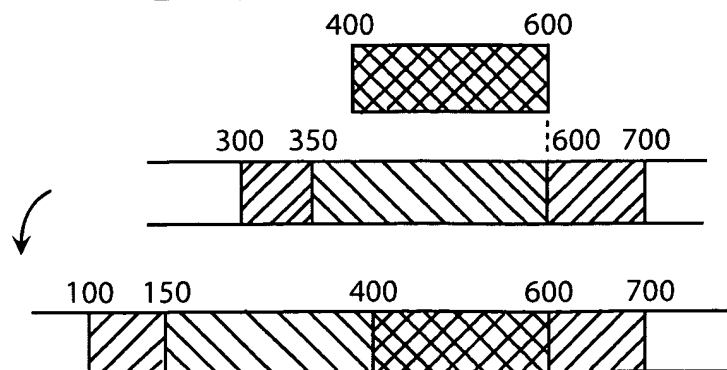


FIG. 6

ADD_NEW_ATTRVAL_SHIFT (TWO END-POINTS)

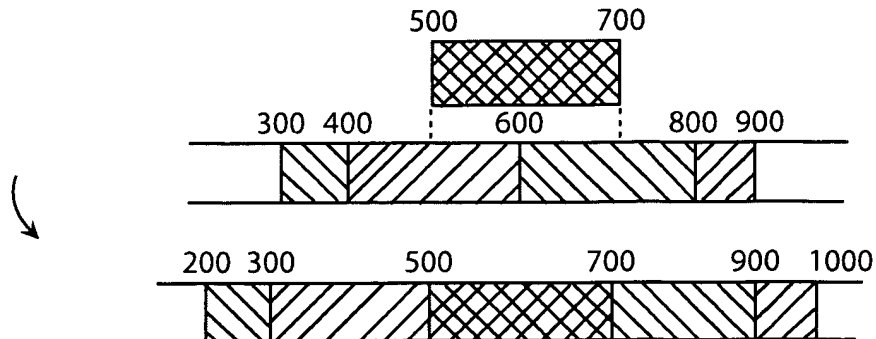


FIG. 7

GENERAL ERROR CONDITIONS

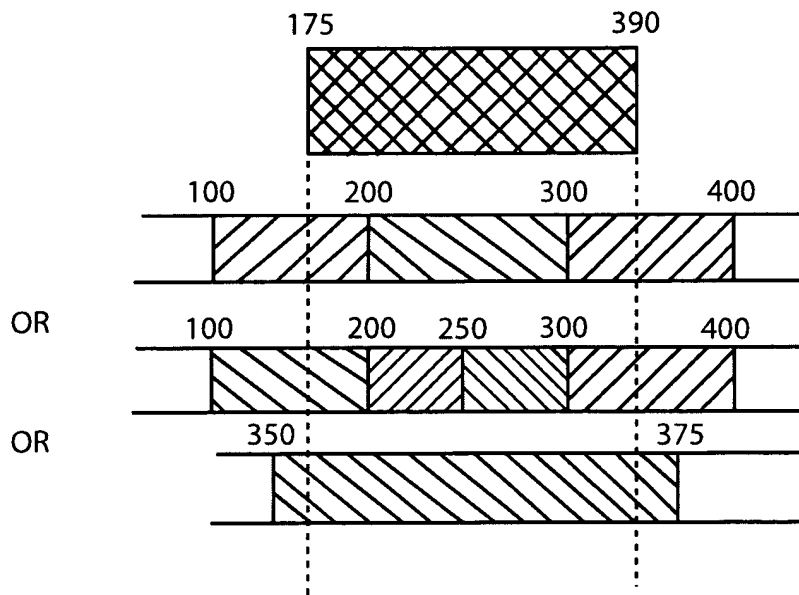


FIG. 8

ADD_NEW_ATTRVAL_SQUEEZE (ONE END-POINT)

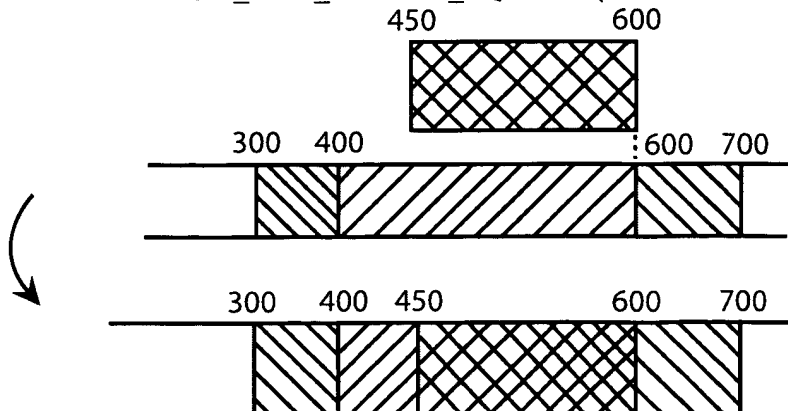


FIG. 9

ADD_NEW_ATTRVAL_SHIFT (ONE END-POINT)

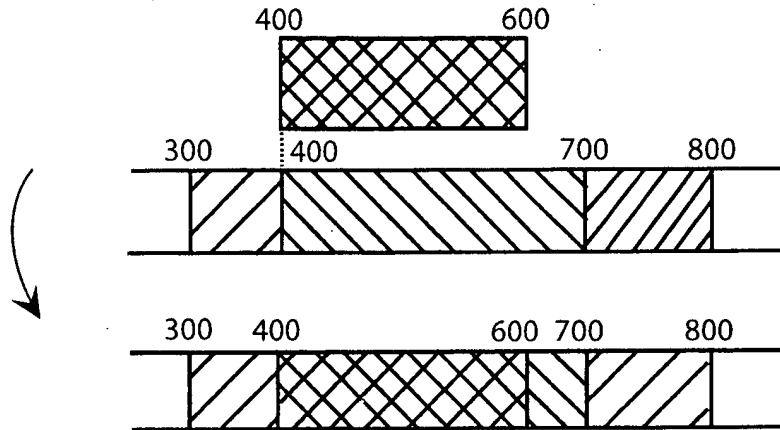


FIG. 10

ADD_NEW_ATTRVAL_SQUEEZE (TWO END-POINTS)

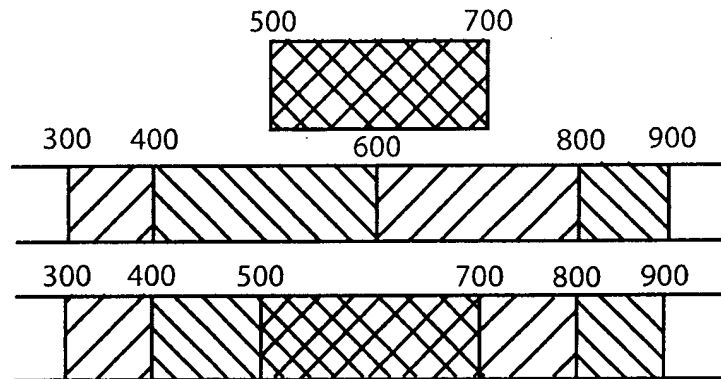


FIG. 11

ERROR CONDITION-ADD_NEW_ATTRVAL_SQUEEZE

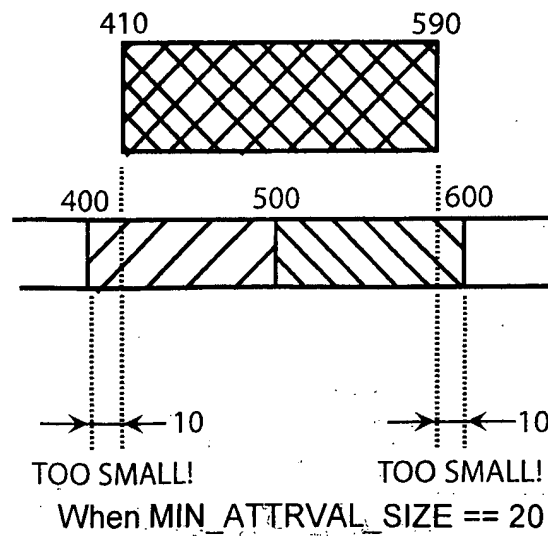
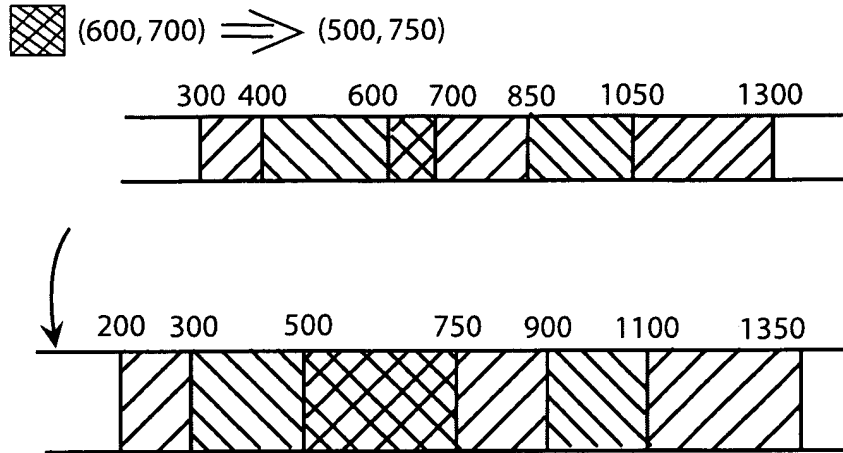
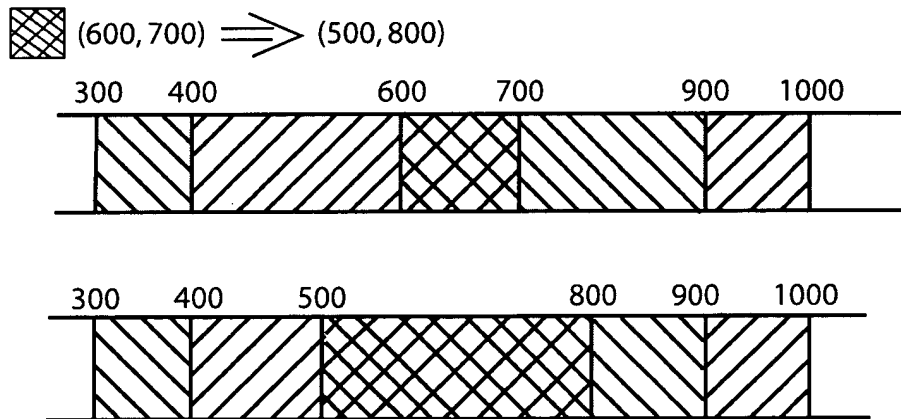


FIG. 12

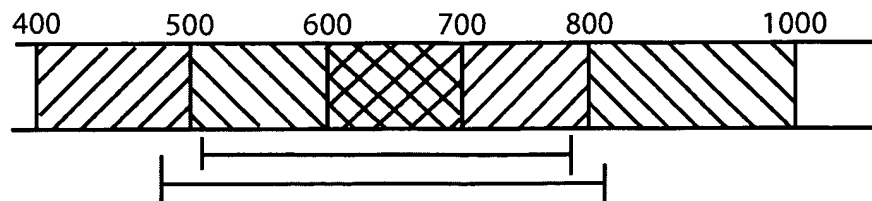
FINAL_EDIT_ATTRVAL_SHIFT


**FIG. 13**

VFINAL_EDIT_ATTRVAL_SQUEEZE

**FIG. 14**

ERROR CONDITION-FINAL_EDIT_ATTRVAL_SQUEEZE



 (600,700) \Rightarrow (510,790) NEIGHBORS BECOME TOO SMALL

 (600,700) \Rightarrow (490,810) NEIGHBORS' BOUNDARIES EXCEEDED BY NEW ATTRVAL FROM/TO RANGE

When MIN_ATTRVAL_SIZE ==20 (for example)

FIG. 15

FINAL_REMOVAL_ATTRVAL_SHIFT

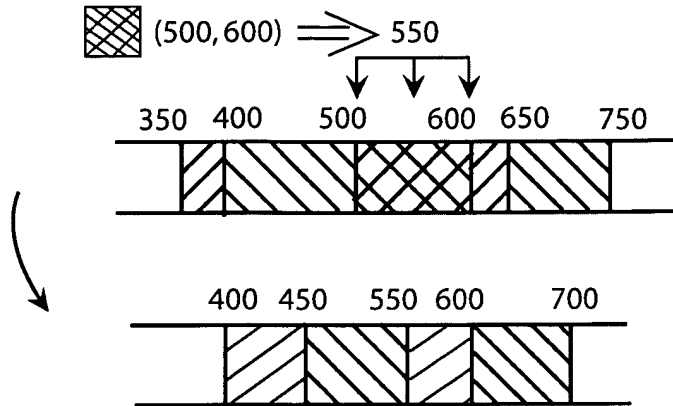


FIG. 16

FINAL_REMOVAL_ATTRVAL_LEAVE_GAP

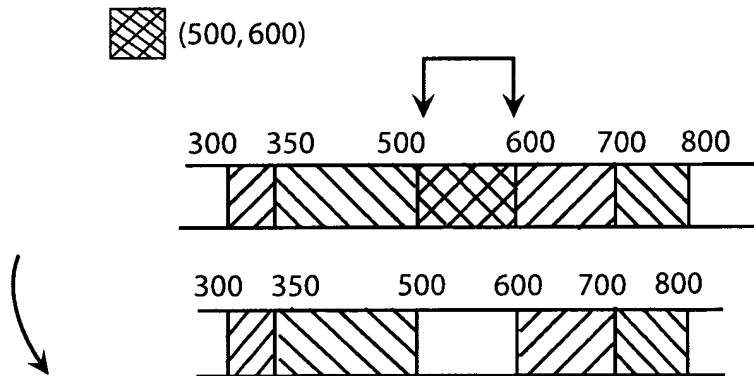


FIG. 17

FINAL_REMOVAL_ATTRVAL_FILL

